

Application Number	09/009,455
Filing Date	01/20/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

Sheet 1 of ~~26~~ 47

Attorney Docket Number	9113-20US
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[illegible]

**Examiner
Signature**

/Stephen Kalafut/

Date Considered

12/03/2007

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PTO/SB/08A (Modified)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	09/009,455	
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			First Named Inventor	Mills	
			Group Art Unit	1745	
			Examiner Name	Kalafut	
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
/SK/		WO	94/29873	A2	Mills	12-22-1994		
		WO	99/05735	A1	Mills	03-04-1999		
		WO	99/26078	A1	Mills	5-27-1999		
		WO	99/34322	A1	Mills	7-8-1999		
		WO	99/35698	A3	Mills	07-15-1999		
		WO	00/07931	A1	Mills	02-17-2000		
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/SK/		WO	01/70627	A3	Mills	08-27-2001		

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/SK/		WO	02/08787	A2	De Geus	01-31-2002		
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		WO	02/088020	A2	Mills	11-7-2002		
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/SK/		GB	2 343 291		Lloyd Wise, Tregear & Co.	05-13-2000		

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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/SK/		"Atomic Physics Progress Report 1995-1996" (internet page) atompc2.fysik.lth.se/AFDOCS/Progrep956/contents.asp (author and date unknown)	
/SK/		"Atomic Spectroscopy" (internet page) physics.nist.gov/Pubs/AtSpec/node20.html (author and date unknown)	
/SK/		Baard, Erik. "The Empire Strikes Back." <i>The Village Voice</i> , April 26-May 2, 2000	
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/SK/		Dennis "Hidden Variables and Relativistic Tachyons" (internet page) www.objectivescience.com/articles/ed_tachy.htm (Date unknown)	
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/SK/		Powell et al. <i>Quantum Mechanics</i> , Addison-Weskey Publishing Co., Inc., pp. 205-229 and 478-482, 1961 (no month)	
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		Group Art Unit	1745		
		Examiner Name	Kalafut		
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		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy Systems, in press. (Internet Publication Date: April		
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/SK/		99. Mills et al., "Spectral Identification of H ₂ (1/2)," submitted. (no date)	
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		Hydrino Theory," <http://en.wikipedia.org/wiki/hydrino_theory>	
		"The Hydrogen Atom," <http://www.physics.nmt.edu/~raymond/classes/ph19xbook/node206.html>	
		Hydrogen News 1999 <http://www.ch2bc.org/bulletin/bulletin10001112.htm>	
/SK/		Real Climate, 20 January 2005, "Peer Review: A Necessary But Not Sufficient Condition," <http://www.realclimate.org/index.php?p=109>	
		E-K Gouw, "Anomalous Broadening and Splitting of Hel and Ar lines in microwave plasmas," unpublished data, 12/01/2003.	
/SK/		Time 2 wake up: "New Power SOURCE that turns physics on its head," 11/09/2005.	
		Chemistry Course Listings in MIT OpenCourseWare. MIT 2005. http://ocw.mit.edu/Ocw/Web/Chemistry/index.htm	
		Conversion Table egs/Gi Units. www.plasmaphysics.org.uk/convers.htm (also cited on page 9)	
Examiner Signature	/Stephen Kalafut/		Date Considered
		12/03/2007	

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	09/009,455		
		Filing Date	01/20/1998		
		First Named Inventor	Mills		
		Group Art Unit	1745		
		Examiner Name	Kalafut		
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		NIST's Physical Reference Datasheet, "Energy Levels of Hydrogen and Deuterium," <URL http://physics.nist.gov/PhysRefData/HDEL/index.html>	
		Welcome to MIT's OpenCourseWare Home Page. MIT 2005. http://ocw.mit.edu/index.html	
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PTO/SB/08A (Modified)

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			Filing Date	01/20/1998		
			First Named Inventor	Mills		
			Group Art Unit	1745		
Examiner Name	Kalafut					
Sheet	26	of	26	47	Attorney Docket Number	9113-20US

FOREIGN PATENT DOCUMENTS																	
Examiner Initials*	Citation No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶									
		Office ³	Number ⁴	Kind Code ⁵ (if known)													
/SK/		JP	2002008892		Shimazu	01-2002											
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				First Named Inventor	Mills
				Group Art Unit	1745
Examiner Name	Langel Kalafut				
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
/SK/		A 353,871		Baditt, et al	10-12-1982	
/SK/		A 702,894		Comish	10-27-1987	
/SK/		A 808,286		Angelo, II	02-28-1989	

FOREIGN PATENT DOCUMENTS								
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Examiner Name	Lengel Kalafut				
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar-H ² Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.	
		Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K ₂ CO ₃ Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.	
		Fujimoto, et. al., "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." J. Appl. Phys. Vol. 66, No. 6, pp. 2315-2319, Sept. 1989.	
		Hollander, et. al. "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen." J. Vac. Sci. Technol. A12 (3), pp.879-882, May/June 1994.	
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		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
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		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	
		Karapins and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567.	

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		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
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		ABELÈS, Ed., Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'", <i>Optical Properties of Solids</i> , 1972, pp. 718-754, North-Holland Publishing Company, Amsterdam	
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		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Langel Kalafut
Sheet 42	of 47	Attorney Docket Number	

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		FISCHER, "Die optische Absorption der U ₂ -Zentren in Alkalihalogeniden des BaCl-Typs", <i>Zeitschrift für Physik</i> , 1967, 204 , pp. 351-374	
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		First Named Inventor	Mills		
		Group Art Unit	1745		
		Examiner Name	Tangel Kalafut		
Sheet	44	of	47	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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		BlackLight Power, Inc., pp. 433-440, 2001	
		NEYMABER <i>et al.</i> , "Formation of HeH ⁺ from Low Energy Collisions of Metastable Helium and Molecular Hydrogen", <i>J. Chem. Phys.</i> , 57, pp. 5128-5137, (Dec. 16, 1972)	
		HOLLANDER <i>et al.</i> , "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen", <i>J. Vac. Sci. Technol.</i> , 12, pp. 879-882, (1994)	
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		KURUNCZI <i>et al.</i> , "Excimer formation in high-pressure microhollow cathode discharge plasmas in helium initiated by low-energy electron collisions", <i>Intl. J. Mass Spectrometry</i> , 205, pp. 277-283, (2001)	
		ABDALLAH <i>et al.</i> , "The Behavior of Nitrogen Excited in an Inductively Coupled Argon Plasma", <i>J. Quant. Spectrosc. Radiat. Transfer</i> , 19, pp. 83-91, (1978)	
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		HODOROABA <i>et al.</i> , "Investigations of the effect of hydrogen in an argon glow discharge", <i>J. Analytical Atomic Spectrometry</i> , (published on the Web 8-4-2000)	
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		KURUNCZI <i>et al.</i> , "Hydrogen Lyman- α and Lyman- β emissions from high-pressure microhollow cathode discharges in Ne-H ₂ mixtures", <i>J. Phys. At. Mol. Opt. Phys.</i> , 32, pp. L651-L658, (1999)	

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		JOYCE et al., "Ion distribution functions in an Ar-Cl ECR discharge", <i>Plasma Sources Sci. Technol.</i>, 9, pp. 429-436, (2000)	
		KAWAI et al., "Electron temperature, density, and metastable-atom density of argon electron-cyclotron-resonance plasma discharged by 7.0, 8.0, and 9.4 GHz microwaves", <i>J. Vac. Sci. Technol. A</i>, 18, pp. 2207-2212, (2000)	
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		MEULENBROEKS et al., "Influence of molecular processes on the hydrogen atomic system in an expanding argon-hydrogen plasma", <i>Phys. Plasmas</i>, 2, pp. 1002-1008 (1995)	
		RUDD et al., "Backward Peak in the Electron Spectrum from Collisions of 70-ke V Protons with a Target from a Hydrogen-Atom Source", <i>The American Physical Society</i>, 68, pp. 1504-1506. (1992)	

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Examiner Signature	/Stephen Kalafut/		Date Considered
		12/03/2007	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/009,455
				Filing Date	01/20/1998
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
Sheet	28 47	of	47	Attorney Docket Number	9113-20US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examine r Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BlackLight Power, "Executive Summary," January 11, 1999, pp. 1-6	
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Examiner Signature	/Stephen Kalafut/		Date Considered
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